

m/045/012

Poverty Point Surety Estimate

Reclamation Surety Estimate
 Holcim (U.S.) Inc.
 Poverty Point Limestone Quarry
 DOGM File # M/045/012
 Prepared for Utah State Division of Oil, Gas, and Mining

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JUN 20 2005

DIV OF OIL GAS & MINING

- The original estimate was prepared in 1981 for 59 acres of proposed disturbance
 - The average \$/acre cost from the 1981 estimate was applied to 15 acres of disturbance
 - A site inspection on 09/20/90 by DOGM, Sitla, BLM, & Holcim revised some reclamation tasks
 - Reducing the quarry highwall to 45 degrees will no longer be required
 - A safety berm at the highwall berm will be necessary
 - Limestone on the quarry floor & processing area will be removed to expose topsoil
 - The limestone removed from the quarry floor will be placed against the quarry highwall
 - Quarry floor & processing pad will be ripped along contour & topsoiled from windrowed stockpiles
 - Soils on the southern end of the processing pad will be pulled onto the pad as a plant growth medium
 - A potential borrow area south of the processing pad may be utilized if approved by SITLA & DOGM
- Development roads to access the upper quarry levels will be recontoured or ripped & water barred
- Upper quarry roads will receive revegetation treatments
 - Berming upper quarry access roads to prevent vehicle access will be required
 - BLM will require reclamation of the final 1500 feet of the 8358 foot haulroad
 - Disturbance area = 38.5 acres of quarry disturbance + 3.7 acres of haulroad

Note: Actual unit costs may vary according to site conditions
 last unit cost update 06-17-2005

-Amount of disturbed area which will receive reclamation treatments = 35.60 acres
-Estimated total disturbed area for this mine = 42.20 acres

<u>Activity</u>	<u>Quantity</u>	<u>Units</u>	<u>\$/Unit</u>	<u>Total Cost</u>
Remove surface limestone (est 6" depth. 80% quarry)	20317	CY	0.5	\$10,158.50
				\$0.00
Ripping quarry floors (est. 80% quarry)	28.5	acres	613	\$17,470.50
Ripping quarry access roads	3.7	acres	561	\$2,075.70
Creating 8 Ft. safety berm at the base of highwall	2564	lf	0.5	\$1,282.00
				\$0.00
Regrade soils from NW edge & s edge into quarry	10.5	acres	561	\$5,890.50
Regrade southern edge of processing pad	6.4	acres	561	\$3,590.40
				\$0.00
Recontour roads to upper quarry benches-trackhoe	6550	lf	1.25	\$8,187.50

				\$0.00
Mulching (2 ton/acre alfalfa)	35.6	acres	350	\$12,460.00
Fertilizing (100lb/acre diammonium phosphate)	35.6	acres	90	\$3,204.00
Broadcast seeding	35.6	acres	240	\$8,544.00
				\$0.00
General site cleanup & trash removal 30% of quarry	21	acres	50	\$1,050.00
				\$0.00
Equipment mobilization	2	equip	2000	\$4,000.00
Subtotal				\$77,913.10
Reclamation Supervision-10% of reclamation estimate				\$7,791.31
Subtotal				\$85,704.41
10% Contingency				\$8,570.44
Subtotal				\$94,274.85
Escalate for 5 years at 2.89% per yr				\$2,724.54
Rounded surety amount in yr 2011-\$				\$96,999.39
Average cost per disturbed acre=				\$2,724.70